

**Texas Commission on Environmental Quality
New Technology Research & Development (NTRD) Program
Monthly Project Status Report**

Contract Number: 582-11-11144-3264

Grantee: Engine, Fuel, and Emissions Engineering, Inc.

Report for the Monthly period: May through July 2011 **Date Submitted:** August 10, 2011

Section I. Accomplishments

Provide a bulleted list of project accomplishments as well as a description of their importance to the project.

- Continued ongoing durability demonstration of locomotive SCR system.
- Continued preparation of emission test plan, including modifications to existing RAVEM hardware and software to perform locomotive emission measurements according to the US Environmental Protection Agency (EPA) requirements.

Indicate which part of the Grant Activities as defined in the grant agreement, the above accomplishments are related to:

- The first bullet pertains to section 2.2.1. of the Grant Activities:
“The PERFORMING PARTY will ensure that the test locomotive, SCAX #865, completes its current demonstration project in service at the Southern California Regional Rail Authority (SCRRA) and accumulates the required demonstration hours in preparation for certification testing.
- The remaining bullets pertain to Task 1, Section 2.1, “The PERFORMING PARTY will select an emission test facility and prepare a certification plan in consultation with EPA”

Section II: Problems/Solutions

Problem(s) Identified: Report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project

- a) SCRRA has informed us that the test locomotive, SCAX #865, will be out of service for six to eight weeks in order to replace the head-end power generator.
- b) Preparation of the emission certification plan is running behind schedule, due to staff shortages. Two-thirds reduction of sales from 2009 to 2010 required EF&EE to lay off most staff. Sales are now rebounding, but hiring and training staff will take time. In the meantime, surviving senior staff are over-extended.

Proposed Solution(s): Report any possible solution(s) to the problem(s) that were considered/encountered

- a) The project delay due to the locomotive being out of service will provide time to complete the emissions certification plan. This should enable the plan to be approved by about the time that the locomotive comes back into service at the end of September. If so, that should result in minimal or no delay in the emission testing schedule.

Action(s) Conducted and Results: Describe the action(s) taken to resolve the problem(s) and its effect

- a) Prioritize completion of emission testing plan during August.

Section III. Goals and Issues for Succeeding Period:

Provide a brief description of the goal(s) you hope to realize in the coming period and identify any notable challenges that can be foreseen

During August, we plan to complete the draft emission test plan in consultation with the Motive Power Industries test laboratory. The plan will be submitted to EPA for approval.

Date: Aug. 10, 2011

Authorized Project Representative's Signature

NOTE: *Please attach any additional information that you feel should be a part of your report or that may be required to meet the deliverable requirements for tasks completed during this reporting period.*